

542,372

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
5 August 2004 (05.08.2004)

PCT

(10) International Publication Number
WO 2004/065703 A1

(51) International Patent Classification⁷: **E03C 1/12**

MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE,
SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:
PCT/US2003/001418

(22) International Filing Date: 16 January 2003 (16.01.2003)

(25) Filing Language: English

(26) Publication Language: English

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant and

(72) Inventor: SANTA ANA, Roland, C. [US/US]; 224 N. Van Buren St., Rockville, MD 20850 (US).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for all designations
- of inventorship (Rule 4.17(iv)) for US only

(74) Agent: DODDS, John; Dodds & Associates, 1707 N St., NW, Washington, DC 20063 (US).

Published:

- with international search report

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ROLAND SANTA ANA

(57) Abstract: A drain trap with clean out for the tube and plumbing industry: May be stud mounted; installed inside or outside a wall. The drain trap (2) has three apertures; the first aperture (3a) permits installation of a tube to a sink, fixture or drain; the second aperture (3b) is a clean out access and may be sealed with a cap (4a). When the cap (4a) is removed, user has access to the insides of the trap (2) and/or tube. This cap (4a) includes a device (5) for screening and/or cleaning the insides of the drain or tube and may be a detachable brush made of nylon bristle materials. The third aperture (3c) permits the trap to be connected to the waste line. A partition element (6) may prevent sewer gas from leaking and passing through. When installed inside a wall, it shall include a wall cover plate (1) and a screw (8a).

WO 2004/065703 A1